Amendment to the Claims

- 1. (currently amended) A formulation consisting of a therapeutically effective amount of a human growth hormone in an aqueous solution, a buffer that maintains the pH of the formulation at a pH of 5 to 7, a non-ionic polysorbate surfactant, a polymer stabilizer wherein said polymer stabilizer is a polyethylene glycol which has a molecular weight in the range of about 3000 to about 20,000, methionine, and one or more optional excipients selected from the group consisting of a divalent cation present in a magnesium salt selected from the group consisting of magnesium hydroxide, magnesium chloride, magnesium sulfate, magnesium citrate, and magnesium edentate; a tonicity agent; and a preservative, wherein the formulation remains stable after at least one freezing and subsequent thawing event.
- (original) The formulation of claim 1, wherein the human growth hormone is a recombinant form of human growth hormone.
- (previously presented) The formulation of claim 2, wherein the recombinant form of human growth hormone is present in the formulation at a concentration of 0.1 mg/ml to 20 mg/ml.
- (original) The formulation of claim 1, wherein the buffer is selected from the group consisting of sodium citrate, sodium edentate, sodium succinate, and histidine hydrochloride.
- (previously presented) The formulation of claim 1, wherein the non-ionic polysorbate surfactant is present at a concentration of about 0.02% to about 10%.
- (previously presented) The formulation of claim 1, wherein the non-ionic polysorbate surfactant is selected from the group consisting of polysorbate 20 and polysorbate 80.
- (previously presented). The formulation of claim 1, wherein the polyethylene glycol is present at a concentration of about 0.25% or about 1%.
 - 8. (canceled)

- 9. (original) The formulation of claim 1, wherein the tonicity agent is sorbitol.
- 10. (original) The formulation of claim 1, wherein the preservative is selected from the group consisting of phenol and benzyl alcohol.
- 11. (previously presented) A formulation consisting of about 0.1 mg/ml to about 20 mg/ml of a recombinant form of human growth hormone in an aqueous solution, a citrate or edentate buffer that maintains the formulation at a pH of about 5 to about 7, about 0.04% to about 5% (w/w) of a polysorbate surfactant, about 0.25% or about 1% (w/v) of polyethylene glycol, methionine, and one or more optional excipients selected from the group consisting of a sufficient concentration of sorbitol for the formulation to be approximately isotonic, magnesium chloride or magnesium hydroxide, and a preservative, wherein the formulation remains stable after at least one freeze thaw event.
- 12. (original) The formulation of claim 11, wherein the preservative is phenol or benzyl alcohol.
- 13. (previously presented) The formulation of claim 11, wherein at least about 90% of the recombinant form of human growth hormone remains in solution after exposure of the formulation to three or more freeze-thaw events.
- 14. (original) The formulation of claim 11 where the formulation is stable at about 2°C to about 8°C for at least 52 weeks.
- 15. (previously presented). The formulation of claim 14 wherein after 52 weeks at about 2°C to about 8°C at least one of
 - (i) total aggregate as measured by size exclusion HPLC is less than about 0.5%,
 - (ii) total deamidation as measured by anion exchange HPLC is less than about 7%, or
 - (iii) the recombinant form of human growth hormone recovery as measured by reverse phase HPLC is greater than or equal to 85%.